AMENDMENTS TO THE CLAIMS

Applicants submit below a complete listing of the current claims, including marked-up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing. This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of the Claims

1. (Currently amended) A library of software program products, the library comprising a set of routines for an embedded software application requiring software (SW) protocol layers, profiles and/or application code embedded on a processor, the library ~~providing~~ further comprising software for an interface between the software application running on the processor and the SW protocol layers and/or the profiles and/or the application code, the interface and the SW protocol layers communicating towards an underlying operating system (OS) through an abstraction layer that maps OS-independent function calls to OS-specific function calls.

2. (Original) The library according to claim 1 wherein the interface is between the software application running on the processor and a telecommunications module.

3. (Currently amended) The library according to claim 2 wherein the telecommunications module is ~~the Bluetooth~~ a lower layer SW protocol of a Bluetooth short range wireless device.

4. (Previously presented) The library according to claim 2, wherein the interface uses telecommunications controller interface communications.

5. (Currently amended) The library according to claim 4 wherein the communications are Host Controller Interface (HCI) communications for communication with the telecommunications module.

6. (Previously presented) The library according to claim 2, wherein the software application communicates with a telecommunications module for executing a telecommunications protocol.

7. (Original) The library according to claim 6 wherein the software application communicates with a hardware input/output interface.

8. (Previously presented) The library according to claim 7 stored on a computer readable medium.

9. (Original) The library according to claim 8, wherein the medium is a CD-ROM or DVD-ROM or a memory or data storage device.

10. (Currently amended) A telecommunications device ~~with~~ comprising an interface executing on the telecommunications device towards an underlying operating system (OS), [[to]] layers of a telecommunications protocol and ~~optionally towards~~ any hardware available for an embedded application, the interface and the layers of the telecommunications protocol communicating towards the underlying OS through an abstraction layer that maps OS-independent function calls to OS-specific function calls.

11. (Original) The telecommunications device according to claim 10 wherein the interface communicates with the telecommunications protocol via telecommunications controller interface communications.

12. (Currently amended) The telecommunications device according to claim 10, wherein the interface is an Application Programming Interface (API).

13. (Previously Presented) Host processing system for executing the library of computer programs in accordance with claim 1.

14. (Currently amended) An Application Programming Interface (API) ~~for providing~~ that provides functions to a software application requiring software (SW) protocol layers, profiles and/or application code embedded on a processor, the API communicating towards an underlying operating system (OS), [[to]] layers of a telecommunications protocol and ~~optionally towards~~ any hardware available for an embedded application, the API and the layers of the telecommunications protocol communicating towards the underlying OS through an abstraction layer that maps OS-independent function calls to OS-specific function calls.

15. (Currently amended) [[An]] The API according to claim 14, wherein the API communicates with the protocol layers using Host Controller Interface (HCI) communications.

16. (Previously presented) The API of claim 14, stored on a computer readable medium.

17. (Currently amended) A method of embedding a software application requiring software (SW) protocol layers, profiles and/or application code embedded on a processor, the method comprising[[:]] generating an Application Programming Interface (API) for communicating towards at least one of an underlying operating system (OS), [[to]] layers of a telecommunications protocol and ~~optionally towards~~ any hardware available for an embedded application, the API and the layers of the telecommunications protocol communicating towards the underlying OS through an abstraction layer that maps OS-independent function calls to OS-specific function calls.

18. (Currently amended) ~~Method~~ A method of operating a telecommunications device ~~with~~ comprising executing, via at least one processor of the telecommunications device, an interface towards an underlying operating system (OS), [[to]] layers of a telecommunications protocol and ~~optionally towards~~ any hardware available for an embedded application, the interface and the layers of the telecommunications protocol communicating towards the underlying OS through an abstraction layer that maps OS-independent function calls to OS-specific function calls.

19. (Currently amended) The method according to claim 18, wherein the interface is an Application Programming Interface (API).

20. (New) A telecommunications device comprising layers of a telecommunications protocol and an interface executing on the telecommunications device towards an underlying operating system (OS), the interface and the layers of the telecommunications protocol communicating towards the underlying OS through an abstraction layer that maps OS-independent function calls to OS-specific function calls.

21. (New) The telecommunications device according to claim 20, wherein the interface is an Application Programming Interface (API).

22. (New) A method of embedding a software application requiring software (SW) protocol layers, profiles and/or application code embedded on a processor, the method comprising generating an Application Programming Interface (API) for communicating towards an underlying operating system (OS), the API and the SW protocol layers communicating towards the underlying OS through an abstraction layer that maps OS-independent function calls to OS-specific function calls.

23. (New) A method of operating a telecommunications device comprising executing, via at least one processor of the telecommunications device, layers of a telecommunications protocol and an interface towards an underlying operating system (OS), the interface and the layers of the telecommunications protocol communicating towards the underlying OS through an abstraction layer that maps OS-independent function calls to OS-specific function calls.

24. (New) The method according to claim 23, wherein the interface is an Application Programming Interface (API).